

### Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

### Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$       **780A**  
 $V_{RRM}$         **200~1000V**  
 $t_{rr}$             **3.0 $\mu$ s**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Double side cooled, T <sub>C</sub> =85°C	150			780	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	tp=10ms	150	200		1000	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			40	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	150			10	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					500
V <sub>FO</sub>	Threshold voltage		150			1.17	V
r <sub>F</sub>	Forward slope resistance						0.36
V <sub>FM</sub>	Peak forward voltage	I <sub>TM</sub> =1200A, F=7.0kN	25			2.60	V
I <sub>rm</sub>	Reverse recovery current	I <sub>TM</sub> =1000A, tp=2000 $\mu$ s, -di/dt=60A/ $\mu$ s, V <sub>R</sub> =50V	150		46		A
t <sub>rr</sub>	Reverse recovery time				3.0		$\mu$ s
Q <sub>rr</sub>	Recovery charge				70	90	$\mu$ C
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN				0.045	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.010	
F <sub>m</sub>	Mounting force			5.3		10	kN
T <sub>stg</sub>	Stored temperature			-40		160	°C
W <sub>t</sub>	Weight				80		g
Outline	ZT25aT						

### Outline:

